

## IN THE CLAIMS

30. (Currently amended) A ~~device~~ structure for rendering sheet material secure from counterfeiting, comprising a sheet material and a pattern of predetermined configuration ~~consisting~~ of polyethylene dioxythiophene polystyrene sulfonate (PEDT/PSS) applied to ~~[[the]]~~ said sheet material.

31. (Currently amended) The ~~device~~ structure of claim 30, wherein ~~[[the]]~~ said sheet material comprises paper and wherein ~~[[the]]~~ said pattern ~~[[of]]~~ comprises PEDT/PSS ~~is applied to the paper in the wet pulp state thereof at least partially saturated therein.~~

Please cancel claim 32.

33. (Currently amended) The ~~device~~ structure of claim 30, wherein ~~[[the]]~~ said pattern of PEDT/PSS is of the CPP105 formulation.

34. (Currently amended) The ~~device~~ structure of claim 30, wherein ~~[[the]]~~ said pattern of PEDT/PSS in its applied state is overtly indistinguishable from the paper.

35. (Currently amended) The ~~device~~ structure of claim 34, wherein ~~[[the]]~~ said pattern of PEDT/PSS has a surface resistance determined by at least one of its manner of application, its manner of integration, its composition and its specific formulation.

36. (Currently amended) The ~~device~~ structure of claim 35, wherein ~~[[the]]~~ said pattern of PEDT/PSS contains an additive.

37. (Currently amended) The ~~device~~ structure of claim 36, wherein ~~[[the]]~~ said additive is at least one of a pigment recognizable by the naked eye, an optically active or actuable pigment, and ~~[[or]]~~ a pigment of magnetic properties.

38. (Currently amended) The ~~device~~ structure of claim 30, wherein ~~[[the]]~~ said sheet material contains a water mark and ~~[[the]]~~ said pattern of PEDT/PSS is applied to ~~[[the]]~~ said water mark.

39. (Currently amended) A method comprising:  
providing a sheet material having a ~~The device of claim 31, wherein the~~ PEDT/PSS is partially or homogeneously applied to the paper in the wet pulp state thereof;  
applying to said sheet material while said sheet material is in said wet pulp state a pattern of PEDT/PSS.

Please cancel claim 40.

41. (Currently amended) The ~~device~~ method of claim ~~[[31]]~~ 39, wherein said sheet material comprises paper and ~~the paper in the wet pulp state thereof is provided with a security element comprising a foil and wherein the~~ said applying comprises applying said pattern of PEDT/PSS is applied to the security element to said foil.

42. (Currently amended) The ~~device~~ method of claim 41, wherein ~~[[the]]~~ said pattern of PEDT/PSS is at least partially applied to ~~[[the]]~~ said foil as a printed image.

43. (Currently amended) The ~~device~~ method of claim 41, ~~wherein the~~ further comprising embedding said foil ~~is embedded in~~ in ~~[[the]]~~ said paper while said paper is in ~~[[the]]~~ said wet pulp state thereof and wherein said foil comprises a first support foil provided with a metallization comprising sectional demetallizations covered by a at least a further layer comprising PEDT/PSS.

44. (Currently amended) The ~~device~~ method of claim 43, wherein ~~[[the]]~~ said pattern of PEDT/PSS is applied as a bonding agent between at least ~~[[the]]~~ said first support foil and ~~[[the]]~~ said metallization and between ~~[[the]]~~ said first support foil and ~~[[the]]~~ said paper in

[[its]] said wet pulp state.

45. (Currently amended) The ~~device~~ method of claim 44, wherein a layer of PEDT/PSS is applied to [[the]] said first support foil on the surface thereof opposite [[the]] said metallization.

46. (Currently amended) The ~~device~~ method of claim 44, wherein [[a]] said metallization is applied to one surface of [[the]] said first support foil and the PEDT/PSS is applied as a layer on [[the]] said metallization.

47. (Currently amended) The ~~device~~ method of claim 43, wherein [[the]] said metallization is covered by a further support foil and at least one of the first and further support foils is covered by a layer of PEDT/PSS.

48. (Currently amended) The ~~device~~ method of claim 43, wherein the elasticity coefficient of the layer of PEDT/PSS is greater than the elasticity coefficient of [[the]] said metallization.

49. (Currently amended) The ~~device~~ structure of claim 30, wherein said sheet material comprises said pattern made of printing ink and wherein the PEDT/PSS is ~~applied as a~~ component of [[a]] said printing ink.

50. (Currently amended) The ~~device~~ structure of claim 30, wherein [[the]] said pattern of PEDT/PSS prior to its application to the sheet material is connected to at least one of a foil, a curable lacquer layer, a reflective layer, and a protective layer prior to application to said sheet material.

Please cancel claim 51.

52. (Currently amended) The ~~device~~ structure of claim 30, wherein [[the]] said sheet

material comprises at least one of a web of paper and a foil applied to the web.

53. (Currently amended) The ~~device~~ structure of claim 30, wherein ~~[[the]]~~ said sheet material comprises at least one of a bonding agent and a primer.

54. (Currently amended) The ~~device~~ structure of claim 30, wherein ~~[[the]]~~ said sheet material comprises a packing material.

55. (Currently amended) The ~~device~~ structure of claim 30, wherein ~~[[the]]~~ said sheet material comprises an article.

56. (Currently amended) The ~~device~~ structure of claim 30, wherein ~~[[the]]~~ said sheet material comprises a security element recognizable by the naked eye.

57. (Currently amended) The ~~device~~ structure of claim 30, wherein ~~[[the]]~~ said pattern of PEDT/PSS comprises ~~is applied as~~ at least one continuous surface.

58. (Currently amended) The ~~device~~ structure of claim 30, wherein the sheet material comprises a discontinuity and ~~[[the]]~~ said pattern of PEDT/PSS extends over the discontinuity.

59. (Currently amended) The ~~device~~ structure of claim 30, wherein ~~[[the]]~~ said pattern of PEDT/PSS comprises ~~is applied as a pattern comprising~~ at least one line.

60. (Currently amended) The ~~device~~ structure of the claim 30, wherein ~~[[the]]~~ said pattern of PEDT/PSS comprises ~~is applied as a pattern comprising~~ a plurality of dots.

61. (Currently amended) The ~~device~~ structure of claim 30, wherein ~~[[the]]~~ said pattern of PEDT/PSS is detectable by at least one of its electric conductivity and optical properties.